

WHAT IS CLAIMED IS:

1. A system for locating an audio segment within a storage device, comprising:
- 5 an input device suitable for transmitting an input sample indicative of the audio segment;
- a media player suitable for playing audio content stored on the storage device;
- 10 a sample converter configured to generate an input sample diphthong sequence in response to receiving the input sample from the input device, wherein the input sample diphthong sequence comprises a digital representation of the diphthong components of the input sample;
- 15 an audio converter configured to generate an audio content diphthong sequence comprising a digital representation of the diphthong components of the audio content of the storage device; and
- 20 a comparator configured to detect a match between the input sample diphthong sequence and a portion of the audio content diphthong sequence.
2. The system of claim 1, wherein the input device comprises a keyboard and the input sample comprises text.
3. The system of claim 1, wherein the input device comprises a microphone and the input sample comprises an audio message.
4. The system of claim 1, wherein the input device comprises the media player and the input sample comprises information recorded on a storage media.

5. The system of claim 1, wherein the comparator is further configured to produce a signal indicative of the location within the storage device of the matching portion of the audio content diphthong sequence.

5

6. The system of claim 5, further comprising a media player configured to receive the location signal from the comparator and to advance the storage device to the location indicated by the location signal.

107. The system of claim 1, wherein the storage medium comprises a compact disc.

8. The system of claim 1, wherein the storage medium comprises a digital video disc.

9. A method of operating a multimedia storage device player system, comprising:

15

converting an audio input sample to a digitized representation of the input sample; and

locating a matching audio segment within audio data stored on a storage device, wherein a digitized representation of the audio segment and the digitized representation of the input sample satisfy match criteria.

20

10. The method of claim 9, further comprising, advancing the storage device to the location of matching audio segment.

2511. The method of claim 9, further comprising transforming the input sample to a frequency domain representation of the input sample and transforming a portion of the audio data to a frequency domain representation of the portion, wherein locating a matching segment includes

correlating the input sample frequency domain representation to the audio data frequency domain representation.

12. The method of claim 11, wherein transforming the input sample and the audio data segment comprises a Fourier transform.

13. The method of claim 9, wherein converting the input sample to its digitized representation comprises the sample to a first sequence of diphthongs and further wherein locating the audio segment includes converting the audio content of the storage device to a second sequence of 10 diphthongs and comparing the first and second sequences of diphthongs for a match.

14. The method of claim 13, wherein converting the audio input sample comprises converting the audio input sample to a first text file, and further wherein locating the matching audio segment comprises converting the audio content on the storage device to a second text file.

15

15. A computer program product for locating an audio segment in a storage device, the computer program product comprising a computer readable medium configured with processor executable instructions, comprising:

20 first converter means for generating a first diphthong sequence responsive to receiving an input sample, wherein the first diphthong sequence is indicative of the input sample;

second converter means for generating a second diphthong sequence from audio information stored on the storage device; and

25

comparator means for locating a portion of the second diphthong sequence, wherein the located portion of the second diphthong sequence and the first diphthong sequence match according to a specified set of match criteria.

16. The computer program product of claim 15, wherein the input sample comprises a text sample.

517. The computer program product of claim 15, wherein the input sample comprises an audio sample.

18. The computer program product of claim 15, wherein the comparator means includes means for indicating the location within the storage device of the audio information corresponding to 10the second diphthong sequence.

19. The computer program product of claim 15, wherein the match criteria require exact match between the first and second diphthong sequence.

1520. The computer program product of claim 15, wherein the match criteria are fuzzy criteria.

21. The computer program product of claim 15, wherein the computer readable medium comprises a storage medium is one of a floppy diskette, hard disk, CD ROM, or magnetic tape.